

HISTORIC AMERICAN ENGINEERING RECORD

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Columbia Basin Project, Grand Coulee
Powerplant Complex
Grand Coulee
Grant County
Washington

HAER No. WA-139-B

Jet Lowe, HAER Photographer, May 1996

- WA-139-B-1 View of Left Powerhouse, looking east. The multi-story building to the right contains the main control room for the powerplant complex.
- WA-139-B-2 View of Left Powerhouse, looking northeast.
- WA-139-B-3 View of Left Powerhouse showing tailrace; directly across the river is Third Powerhouse (see below).
- WA-139-B-4 Interior of Left Powerhouse showing generator room, looking east.
- WA-139-B-5 Interior of Left Powerhouse showing generator Nos. 1-4. This view is from the catwalk at the level of the overhead crane, looking west.
- WA-139-B-6 Interior of Left Powerhouse showing the Whiting (Company's) "Tiger" crane with a capacity of 350 tons, looking west. Note the terrazzo floor below depicting a Francis turbine.
- WA-139-B-7 Interior of Left Powerhouse; detail of the terrazzo floor depicting a Francis turbine, looking east.
- WA-139-B-8 Interior of Left Powerhouse; detail of the terrazzo floor depicting a Francis turbine, looking east.
- WA-139-B-9 Interior of visitor's room at Left Powerhouse, containing terrazzo floor depicting a turbine-generator unit.
- WA-139-B-10 Interior hallway at 1250 Gallery, Block 11, which leads from Left Powerhouse to Pump-Generating Plant, looking southwest.
- WA-139-B-11 Interior hallway, at 1250 Gallery, showing entrance into Pump-Generating Plant from Left Powerhouse, looking southwest.

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WA-139-B-12 View of Right Powerhouse (to the left) and Third Powerhouse, looking west.

WA-139-B-13 Interior of Right Powerhouse, generator room, looking east. The unit in the foreground is turbine-generator No. 11.

WA-139-B-14 Interior of Right Powerhouse, generator room, looking east.

WA-139-B-15 Interior of Right Powerhouse, looking east, showing turbine-generator unit No. 11, which is undergoing repair. This is generator is identical to the other eight units located in the Right Powerhouse: Westinghouse AC generator, 108,000 kva, 13,800 volts, 4,200 amps, 3 phase, 60 cycle, 1220 exciter amps, 250 exciter volts.

WA-139-B-16 Interior of Right Powerhouse, showing control panel for generator No. 10, looking southeast.

WA-139-B-17 Interior of Right Powerhouse, showing control panel for generator No. 10, looking southwest.

WA-139-B-18 Interior of Right Powerhouse, looking northeast, showing shaft from Francis turbine (below) extending to the generator (above). This is unit G-11, a Francis turbine that is identical to the others in the Right Powerhouse: manufactured in 1950 by the Newport News Shipbuilding and Drydock Company, Newport News, Virginia; 165,000 horsepower, 330 ft. head, 120 rpm.

WA-139-B-19 Interior of Right Powerhouse, looking northeast, showing shaft from Francis turbine (below) extending to the generator (above). This is unit G-10.

WA-139-B-20 View of Third Powerhouse, looking north.

WA-139-B-21 View of Third Powerhouse, looking east.

WA-139-B-22 View of Third Powerhouse, looking west.

WA-139-B-23 View of Third Powerhouse, looking west.

WA-139-B-24 Interior of Third Powerhouse, looking north.

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- WA-139-B-25 Interior of Third Powerhouse, looking south, showing the work on the new stator which is being fabricated by Siemens.
- WA-139-B-26 Interior of main control room in building adjacent to the Left Powerhouse.
- WA-139-B-27 View of 500,000 volt spreading yard that transfers power from underground cable, from Third Powerhouse, to overhead line; the towers are pipe-type transformer towers. Looking west.